```
==============================================================
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: Tue Sep 04 17:06:54 EDT 2007
==============================================================
```

Application No: 10590043   Version No: 1.0

Input Set:

Output Set:

Started:	2007-08-22 19:30:02.397
Finished:	2007-08-22 19:30:03.161
Elapsed:	0 hr(s) 0 min(s) 0 sec(s) 764 ms
Total Warnings:	13
Total Errors:	0
No. of SeqIDs Defined:	15
Actual SeqID Count:	15

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)

SEQUENCE LISTING

<110>   Paltonen-Palotie, Leena et al.

<120>   Identification of SNPs Associated with Hyperlipidemia,
         Dyslipidemia and Defective Carbohydrate Metabolism

<130>   0147-0278PUS1

<140>   10590043
<141>   2007-08-22

<160>   15

<170>   PatentIn version 3.4

<210>   1
<211>   5687
<212>   DNA
<213>   Human

<220>
<221>   variation
<222>   (3966)..(3966)
<223>   r = adenine (a) or guanine (g):
         adenine is wild-type associated; guanine is disease-associated

<220>
<221>   variation
<222>   (5205)..(5205)
<223>   y = cytosine (c) or thymine (t):
         thymine is wild-type associated; cytosine is disease-associated

<400>   1
ttgaaaattt tccttggata ggaaaggttt ggaggacctt atgggtagag aatttccaaa   60

aatcttgccc cttttgtgtt gggattatct tattgctttg tactgtgtag ctgtttcttt   120

ctggaggcat gtctgcccag ctctttgttt ttcctgccct ctggctgggt gtcagggtcc   180

taaggcagag cttgtaggtg gattcttccc cctttgtctc ttcttcagaa ccctgttttt   240

ttttttttta ccccttcttg ctcaggctta gttgatttgg agttgtcata gcaacatttt   300

agcaacagtg ttgttctgca ggaaggcttg atgaataaaa tagagaatgc ttgaagagga   360

tccacttggg ctttagggtt tctaacagat tatataaatc tggataccccc aaaacaagag   420

tcctgtcagt agaatggggc ccaaatgcca agtctagtct ttgtggtcag ggatattctt   480

ccagtggtag tgggcttcag atttcctctt cctaggtttg aaaacagaaa tgtcttgatg   540

gacaacatgt ggctgagaaa ctggaagaag catcagtgtc catgacactg tatttttga   600

tggtggggcc aatacatggc ccttcctgat tcccatgaag ctgccatcat ggcaggtcat   660

```
aatagcttta atgatccatt tagagatgtg ttgttggctg ggtgcggtgg ctcatgcctg      720

taatccaagc actttgggag gccgaggcag gcggatcacc tgaggtcagg agttccagac      780

cagcctggcc aatatggtaa aaccccatct ctactgaaaa tacaaaaatt agctgggcgt      840

ggtggtgggc acctataatc ccagctattc aggaggctga ggcaggagaa tcacttgaac      900

ccaggagatg gaggttgtaa gccgagattg tgccactgca ctccagcctg ggtgacagag      960

caagattctg tctcagaaaa aaaaaaaaa aaaagaaaga aatgtgttgt ttcggccagg     1020

tgcagtggct cacacctgta atcccagcac tttgggaggc tgccgaggtg acagatcat     1080

gctctcagga gttcgagacc agccgggcca acatggtgaa accccgtctc tactaaaaat     1140

acaaaaatta gccaggcgtg gtggtgtgca cctgtaatcc cagctactcc ggaggctgag     1200

gcaggagaat cacttgaacc tgggaggcag aggttgcagt gagctgagat cgcgccactg     1260

cactccagcc tgggtgacag agagagactc tgtctcaaaa aaaaaaaaa aaaaaagtg     1320

ttgtttctgt cttccagtat aattatccac tctccaccag gagttggagt gataatggag     1380

ggatggggaa cactatttgt agccttgctt tttcaatcac tgtaggccag tcctcaacat     1440

cagtatggtg gaggctgatt gtcccctgca gatgactggg ttattttcct ggctatgtgt     1500

tcatggaacc taagttctag aaccagagat actgttctgt ttcctaaact cattgcaaac     1560

ttcatgattt ctaccaggac ttagcactca ggcctgtgaa tcaggagata caaagacctc     1620

caaaaaagga ccagttcctc ggatgtgccc cctcacagag agatgaaggg gtgagtgaag     1680

aagaggtagg gtctgggatg aaagatgggt ggcctggaag aatgcaaaat gaccaagagc     1740

actgcctctg gagtcaggca gacctggatt caggttctac tctatcactt actgtgtgat     1800

ttggtttctc tatctataaa atggaagtag tgctatctat ctcgtggtgc tgtttttagt     1860

actaaataag attacatgta atgtacttag cttagtgctt atgtacatag taaacagtaa     1920

acactagttg ttattctaac ctaacccagc ttctgttggg aatgccaatg agtttgcagc     1980

catatgttac tgggccagtg agcttctcat tgacttcttc tcatactctt ccttttgtcc     2040

tttcaccaca aacaggcagc agaaaacagc tgaaacggaa gagggggacag tgcagattca     2100

ggaaggtgag tgctagaaac agaaccaaga ctaagaaccc atcatggcct cccttccttc     2160

cccaccagac catctcctgt gcatcctcct ccttccgtga catgcaaatg gaacgggggt     2220

agaaaggcag ttaactcaca gacttttcct ttgttctttt aattcaggtg cagtggctac     2280

tggggaagac ccaaccagtg tggctattgc cagcatccag tcagctgcca ccttccctga     2340

ccccaacgtc aagtacgtct tccgaactga gaatgggggc caggtaaggg aggggggccag     2400
```

```
gtggctgcag gtgttatctg gggttgggat tgagggaggt aattgaacat gtcttgggga   2460

gacctggctt ggaggatgag ttgaaagagt ggactgttgc agggggaggga ggtgctaata   2520

ctggagtaga gactggtgtg aggttagatg tatgctgaaa cctctgtgtg gggaaagaag   2580

ggagaatggc tgaatccatg tctctgaagg actttgtttt ggggccctat ccaagggaag   2640

cttttatgagg ggccctagga ttcccaacac ttaatctttt cttctctctt cactccctct   2700

gccttcctct acacttctag gtgatgtaca gggtgatcca ggtgtctgag gggcagctgg   2760

atggccaaac tgagggaact ggcgccatca gtggctaccc tgccactcaa tccatgaccc   2820

aggtacaggg tatgggctgg ggaggtcact agagttctga gaagtaagat gaagaaggga   2880

atcagtagga tgggggtgaa gctaggaaca gtgaggcatc taaggctgcc ttgtcccaaa   2940

gcactaggct ctcctttct ggatgtttct ctctctctct ctctctctct ccaccctacc   3000

taccaccccca acggatagaa gctgcagagt ggtgtagtgg gaagaagttt ttgactgtta   3060

ccagaatcag ttttcttgct ccccttccca ggcggtgatc cagggtgctt tcaccagtga   3120

tgatgcagtt gacacggagg ggacagctgc tgagacgcac tatacttact tccccagcac   3180

ggcagtggga gatggggcag ggggtaccac atcggggagt acagctgctg ttgttactac   3240

ccagggctca gaggcactgc tggggcaggc gacccctcct ggcactggtg agatattgca   3300

tgaggatgct ggctgaaagg gctagaatag gctgtgggac atgactggta ggcagtgagc   3360

cttcactcat gactcttagt gatcattaag acctggacag gcagtgagtc tggggctgct   3420

cttctattag catgttcttt ttagaggagg ggaccagggt cttcacctca gggcttggtg   3480

aggttcctac ccatgtcctg acagaaccta ccctgcatct tcacaggtca attctttgtg   3540

atgatgtcac cacaagaagt actgcaggga ggaagccagc gctcaattgc ccctaggact   3600

caccccttatt ccccgtgagt gaccccttgtt tcttctcaga ttccgtaagt ggtttttttt   3660

ttttttttttt tttttgaga cagagtcttg ctctgtcacc caggctggag tgcagtggca   3720

tgatctcagc tcactgcaac ctctgcttcc agggttcaag cgtttctcat gcctcagcct   3780

cctgagtagc tggaactaca gacatgtacc accaccctg gctaattttt gtatctttag   3840

tagagacagg gtttcaccat gttggccagg ctggtctcga actcctgacc tcaagtgatc   3900

cgcctgcctc ggcctcccaa agtgctggga ttacaggtgt gagacaccac acctagctac   3960

cataartggt cctaatacct gctaaatctt gtataattcc ttaacccccaa acttcaatca   4020

tgtattttgt cttcttactc tggccaccct gggctctgtt gtcaggaagt cagaagctcc   4080
```

```
ccggacgact cgggatgaga aacgcagggc tcagcataat gaaggtaggt atgatctggg      4140

tggagctaga agctgtctgg tgtgatctca gcagtgatgt ctgaggggag gagggattag      4200

gtaattttac cctgggactt gtggcgagtt ttcactgagt caccttgtcc tccactttgc      4260

cccacagtgg agcgtcgccg ccgagacaag atcaacaact ggatcgtgca gctctccaag      4320

ataatcccag actgctctat ggagagcacc aagtctggcc aggtcatgga aagaccctgg      4380

tagtgggcag gatgcctgaa ttctgcctcc tggtattgtt ccagaaatg gtagagagag       4440

gggcacacat gacagtagtc ttatctctcc ctgaggttcc tgtatccctg ggagatatta      4500

taccaccttc cttagatgaa aatgaggtcc aaagtgtgaa cctacttttg gaaagcaagc      4560

tgggtatctg aaatcctagt tctcattttg ttgaccttat cttgcagagt aaaggtggga      4620

ttctatccaa agcttgtgat tatatccagg agcttcggca gagtaaccac cgcttgtctg      4680

aagaactgca gggacttgac caactgcagc tggacaatga cgtgcttcga caacaggtca      4740

gactcctacc cccagtgcag cccttctcag ttctgctagc cactgaccca gtttgacacc      4800

ctctactttg ttctccatgg agaaggcttc atcttttccc cctcaccagt ggatgtctga      4860

atacattcag gggcttggaa gtgccagctt tactacccat tccctttact gcctccttcc      4920

catgtcaggt ggaagatctt aaaaacaaga atctgctgct tcgagctcag ttgcggcacc      4980

acggattaga ggtcgtcatc aagaatgaca gcaactaact atggggattc aggggctttg      5040

ggcccaagaa ctgcagatag cccaggagca acagcctaat cccgtgcccc tttccttcac      5100

tgccccactt ctggcatggg acagggggaa gttcagaagg tgtgtccttg aactgaggcc      5160

ctgtgatatg gcggcctgca gtggtgtgaa acacacaatg tggaygtgca ctgacagcct      5220

tgcccacccc caccatgcag cccctgggcc cttgtgctcc tctcgcacaa tgcatgtgct      5280

gtctccatgc tggatactgg acacactaaa ctctggggct tgtcctgtgc ttgcttagag      5340

tgcccagcag aggtttgctg acaggtgatg ctctggcttg ccccaggact ctggcacttc      5400

cattggttct tcctttccct ggagctgagg tttagatgtg caacctgtgg ctcagggggag     5460

caagcttaca caagaagtga gggaaggatg tttagcagtg gctggtgccc atgaagagga      5520

gattggccag tgagaagctg aggcctatgc agacatctct ggagccagag agaacaacag      5580

gcaggggccc acttggggcc ttcccccttg tggggtcgt ttttttttt tctttcttt        5640

ttttttttt tttttttttt tttttaagat aaaattgttc aaagcca                    5687


<210>   2
<211>   56
```

<212> DNA
<213> Homo sapiens

<400> 2
tttagcaggt attaggacca cttatggtag ctaggtgtgg tgtctcacac ctgtaa   56

<210> 3
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
      probe

<400> 3
tttagcaggt attaggacca ttatggtagc tggtgtggtg tctcacactg taa   53

<210> 4
<211> 23
<212> DNA
<213> Homo sapiens

<400> 4
ggtattagga ccattatggt agc   23

<210> 5
<211> 23
<212> DNA
<213> Chimp

<400> 5
ggtattagga ccattatggt agc   23

<210> 6
<211> 10
<212> DNA
<213> Dog

<400> 6
ggatagacca   10

<210> 7
<211> 11
<212> DNA
<213> Mouse

<400> 7
ggaaccatta c   11

<210> 8

```
<211>  14
<212>  DNA
<213>  Rat

<400>  8
ggataccatc atac                                                        14


<210>  9
<211>  16
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Description of Artificial Sequence:  Consensus sequence from
       multiple organisms

<400>  9
ggyayyrrra ccacyy                                                       16


<210>  10
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Description of Artificial Sequence:  Synthetic PCR primer

<400>  10
atgacgtgct tcgacaacag                                                   20


<210>  11
<211>  20
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Description of Artificial Sequence:  Synthetic PCR primer

<400>  11
gggctatctg cagttcttgg                                                   20


<210>  12
<211>  24
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Description of Artificial Sequence:  Synthetic PCR primer

<400>  12
cggagtcaac ggatttggtc gtat                                              24
```

```
<210>   13
<211>   24
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Description of Artificial Sequence:  Synthetic PCR primer

<400>   13
agccttctcc atggtggtga agac                                          24


<210>   14
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Description of Artificial Sequence:  Synthetic PCR primer

<400>   14
aaccctcatg atgctgttgt c                                             21


<210>   15
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Description of Artificial Sequence:  Synthetic PCR primer

<400>   15
taggatgatg gcactgaact c                                             21
```